

CLAIMS

1. A gas-insulated switchgear in which main circuit equipments are accommodated within a tank hermetically filled with an electrically insulating gas, comprising;

at least one switchgear module in which a disconnector with a grounding switch and an electrically insulating frame capable of supporting an interrupter including a vacuum valve are disposed in the tank in a vertically stacked relationship, and in which said disconnector and said vacuum valve are connected between their movable rods.

2. A gas-insulated switchgear as claimed in claim 1, wherein said switchgear module is arranged so that all of the interrupter, the disconnector with the grounding switch, the bus bar bushing and the cable connecting bushing can be mounted.

3. A gas-insulated switchgear as claimed in claim 1, wherein a plurality of said switchgear modules are connected to each other via a spacer hermetically connecting said tank to define a circuit.

4. A gas-insulated switchgear as claimed in claim 1, wherein said switchgear module is arranged so that all of the interrupter, the disconnector with the grounding switch, the bus bar bushing and the cable connecting bushing can be mounted, and wherein a plurality of said switchgear modules are connected to each other via a spacer hermetically connecting said tank to define a circuit.

5. A gas-insulated switchgear as claimed in claim 1, wherein said tank is provided, at the front face thereof, with an opening portion that is hermetically closed by a mounting plate on which the interrupter and the disconnector with the grounding switch can be mounted and, at the rear face thereof, with an opening portion for mounting therein the bus bar bushing and the cable connecting bushing, and, at the upper and the lower portions, with openings to which a spacer for hermetically connecting the tanks can be mounted, and

wherein, the tank can be made applicable in either modules by, during tank manufacture, eliminating forming of the selected opening or by closing the selected opening with a cover plate.

6. A gas-insulated switchgear as claimed in claim 1, wherein said switchgear module is arranged so that all of the interrupter, the disconnector with the grounding switch, said tank is provided, at the front face thereof, with an opening portion that is hermetically closed by a mounting plate on which the interrupter and the disconnector with the grounding switch can be mounted and, at the rear face thereof, with an opening portion for mounting therein the bus bar bushing and the cable connecting bushing, and, at the upper and the lower portions, with openings to which a spacer for hermetically connecting the tanks can be mounted, and wherein, the tank can be made applicable in either modules by, during tank manufacture, eliminating forming of the selected opening or by closing the selected opening with a cover plate.

7. A gas-insulated switchgear as claimed in claim 1, wherein a plurality of said switchgear modules are connected to each other via a spacer hermetically connecting said tank to define a circuit, wherein said tank is provided, at the front face thereof, with an opening portion that is hermetically closed by a mounting plate on which the interrupter and the disconnector with the grounding switch can be mounted and, at the rear face thereof, with an opening portion for mounting therein the bus bar bushing and the cable connecting bushing, and, at the upper and the lower portions, with openings to which a spacer for hermetically connecting the tanks can be mounted, and wherein, the tank can be made applicable in either modules by, during tank manufacture, eliminating forming of the selected opening or by closing the selected opening with a cover plate.

8. A gas-insulated switchgear as claimed in claim 1, wherein said switchgear module is arranged so that all of the interrupter, the disconnector with the grounding switch, the bus bar bushing and the cable connecting bushing can be mounted, wherein a plurality of said switchgear modules are connected to each other via a spacer hermetically connecting said tank to

define a circuit, wherein said tank is provided, at the front face thereof, with an opening portion that is hermetically closed by a mounting plate on which the interrupter and the disconnector with the grounding switch can be mounted and, at the rear face thereof, with an opening portion for mounting therein the bus bar bushing and the cable connecting bushing, and, at the upper and the lower portions, with openings to which a spacer for hermetically connecting the tanks can be mounted, and wherein, the tank can be made applicable in either modules by, during tank manufacture, eliminating forming of the selected opening or by closing the selected opening with a cover plate.

9. A gas-insulated switchgear as claimed in claim 1, wherein a plurality of said switchgear modules are connected to each other via a spacer hermetically connecting said tank to define a circuit, and wherein, within said switchgear module, said insulating frame has a lightning arrester accommodated therein, and wherein a module in which a grounding switch or a disconnector with a grounding switch is accommodated is disposed above or below the insulating frame.

10. A gas-insulated switchgear as claimed in claim 1, wherein said switchgear module is arranged so that all of the interrupter, the disconnector with the grounding switch, the bus bar bushing and the cable connecting bushing can be mounted, wherein a plurality of said switchgear modules are connected to each other via a spacer hermetically connecting said tank to define a circuit, and wherein, within said switchgear module, said insulating frame has a lightning arrester accommodated therein, and wherein a module in which a grounding switch or a disconnector with a grounding switch is accommodated is disposed above or below the insulating frame.

11. A gas-insulated switchgear as claimed in claim 1, wherein said tank is provided, at the front face thereof, with an opening portion that is hermetically closed by a mounting plate on which the interrupter and the disconnector with the grounding switch can be mounted and, at the rear face thereof, with an opening portion for mounting therein the bus bar bushing and the cable connecting bushing, and, at the upper and the lower portions, with

openings to which a spacer for hermetically connecting the tanks can be mounted, and wherein, the tank can be made applicable in either modules by, during tank manufacture, eliminating forming of the selected opening or by closing the selected opening with a cover plate, and wherein, within said switchgear module, said insulating frame has a lightning arrester accommodated therein, and wherein a module in which a grounding switch or a disconnector with a grounding switch is accommodated is disposed above or below the insulating frame.

12. A gas-insulated switchgear as claimed in claim 1, wherein said switchgear module is arranged so that all of the interrupter, the disconnector with the grounding switch, the bus bar bushing and the cable connecting bushing can be mounted, and wherein said tank is provided, at the front face thereof, with an opening portion that is hermetically closed by a mounting plate on which the interrupter and the disconnector with the grounding switch can be mounted and, at the rear face thereof, with an opening portion for mounting therein the bus bar bushing and the cable connecting bushing, and, at the upper and the lower portions, with openings to which a spacer for hermetically connecting the tanks can be mounted, and wherein, the tank can be made applicable in either modules by, during tank manufacture, eliminating forming of the selected opening or by closing the selected opening with a cover plate, and wherein, within said switchgear module, said insulating frame has a lightning arrester accommodated therein, and wherein a module in which a grounding switch or a disconnector with a grounding switch is accommodated is disposed above or below the insulating frame.

13. A gas-insulated switchgear as claimed in claim 1, wherein a plurality of said switchgear modules are connected to each other via a spacer hermetically connecting said tank to define a circuit, and wherein said tank is provided, at the front face thereof, with an opening portion that is hermetically closed by a mounting plate on which the interrupter and the disconnector with the grounding switch can be mounted and, at the rear face thereof, with an opening portion for mounting therein the bus bar bushing and the cable connecting bushing, and, at the upper and the lower portions, with openings to

which a spacer for hermetically connecting the tanks can be mounted, and wherein, the tank can be made applicable in either modules by, during tank manufacture, eliminating forming of the selected opening or by closing the selected opening with a cover plate, and wherein, within said switchgear module, said insulating frame has a lightning arrester accommodated therein, and wherein a module in which a grounding switch or a disconnector with a grounding switch is accommodated is disposed above or below the insulating frame.

14. A gas-insulated switchgear as claimed in claim 1, wherein said switchgear module is arranged so that all of the interrupter, the disconnector with the grounding switch, the bus bar bushing and the cable connecting bushing can be mounted, wherein a plurality of said switchgear modules are connected to each other via a spacer hermetically connecting said tank to define a circuit, and wherein said tank is provided, at the front face thereof, with an opening portion that is hermetically closed by a mounting plate on which the interrupter and the disconnector with the grounding switch can be mounted and, at the rear face thereof, with an opening portion for mounting therein the bus bar bushing and the cable connecting bushing, and, at the upper and the lower portions, with openings to which a spacer for hermetically connecting the tanks can be mounted, and wherein, the tank can be made applicable in either modules by, during tank manufacture, eliminating forming of the selected opening or by closing the selected opening with a cover plate, and wherein, within said switchgear module, said insulating frame has a lightning arrester accommodated therein, and wherein a module in which a grounding switch or a disconnector with a grounding switch is accommodated is disposed above or below the insulating frame.